

ABSTRACT OF THE DISCLOSURE

Reinforced hose, especially useful for transmitting synthetic transmission fluids and having enhanced thermal resistance includes a chlorinated polyethylene tube which is vulcanized with a blend of peroxides and cross-linking coagents to provide resistance to degradation caused by synthetic transmission oil. A plasticizer comprised of a blend of polymeric and ester based materials provides improved high temperature and low temperature properties. The tube is reinforced by a woven layer of metal wire which is in turn covered by a rubber adhesive layer that is overlain by a woven layer of yarn. The woven yarn braid is covered with a coating of polyurethane material in order to improve abrasion resistance and to prevent yarn fiber from being caught on rough surfaces that the hose may be dragged across. The entire hose is vulcanized after its assembly and then rapidly cooled. While the hose is especially suitable for transmission oil coolers, it also has use in power steering and fuel delivery systems, as well as any other systems which may be thermally stressed and which convey fluids that may cause degradation of hoses.